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INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900

ATel #12048; *E. Bozzo (ISDC, Switzerland), E. Kuulkers (ESA/ESTEC, Netherlands), A. Paizis (INAF-IASF Milano, Italy), A. Bazzano (INAF-IAPS Rome, Italy), R. Wijnands (UVA, Netherlands), P. Kretschmar, C. Sanchez-Fernandez (ESA/ESAC, Spain), J. Chenevez (DTU, Denmark), M. Del Santo (INAF-IASF Palermo, Italy), A. Bodaghee (GCSU, USA), L. Ducci, V. Savchenko, C. Ferrigno (ISDC, Switzerland); on behalf of the INTEGRAL Galactic bulge monitoring team*

on 19 Sep 2018; 15:52 UT

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Subjects: X-ray, Binary, Neutron Star, Transient

During the observations in the direction of the Galactic Bulge (ATel #438) carried out from 2018 September 18 at 11:55 to 15:36 (UTC), INTEGRAL detected renewed activity from the transient neutron star low mass X-ray binary (NS LMXB) SAX J1750.8-2900.

The source is detected in the IBIS/ISGRI mosaic at a flux of 23 \pm 3 mCrab in the 20-40 keV energy band and 29 \pm 4 mCrab in the 40-80 keV energy band. The source is also detected by the JEM-X telescopes. The estimated fluxes from the JEM-X mosaics are 20 \pm 3 mCrab in the 3-10 keV energy band and 16.0 \pm 9.5 mCrab in the 10-25 keV energy band.

A preliminary analysis of the IBIS/ISGRI spectrum revealed that the hard X-ray emission from the source could be characterized by a power-law model with a photon index of 3.5 \pm 1.2 (90% c.l.). The measured 20-100 keV flux from the spectral fit is 5E-10 erg/cm²/s (no spectral analysis of the JEM-X data has been carried out due to the calibration uncertainties affecting the near-real time data).

No type-I X-ray bursts were observed in the JEM-X lightcurves extracted with a time resolution of 2 s in the 3-20 keV energy band.

The most recent hard X-ray outburst from this source was announced in 2015 (ATel #8058).

Further INTEGRAL observations toward the direction of the source are already planned in the coming days. Multi-wavelength observations in other energy domains are also encouraged, as well as observations to characterize the source soft X-ray emission (< 3 keV).

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3181	Swift/XRT confirms the INTEGRAL detection of a faint outburst from SAX J1750.8-2900
3172	INTEGRAL sees continuing activity from SAX J1747.0-2853, but not from SAX J1750.8-2900
3170	INTEGRAL/IBIS observations of the Galactic center region at the epoch of the short Fermi/LAT flare
3163	Swift/XRT detects SAX J1747.0-2853 (=MAXI J1745-288) in outburst
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[**Telegram Index**]

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